

## REMARKS

In his Office Action the Examiner has rejected Claims 1 and 2 under 35 U.S.C. 103(a) as being unpatentable over Kolanek (U.S. Pat. No. 6,147,553) in view of Filipovic et al (U.S. Pat. No. 5,910,752) and Midya (U.S. Pat. No. 5,838,210). The Examiner has stated in his rejection that Kolanek discloses a modulated radio frequency carrier in Figures 1 and 6, capable of transmitting a binary information stream made up of first and second binary states comprising: a carrier frequency waveform made up of wavelets; and, said wavelets having been modulated in accordance with said information stream by having suppressed the amplitude of said wavelets corresponding to said first binary states of said information stream, and not having suppressed the amplitude of said wavelets corresponding to said second binary states of said information stream.. Kolanek does not specifically disclose a continuous sequence of Wavelets being defined by a 360 degree cycle between crossover positions; said crossover positions representing a substantially zero energy level. The Examiner then cites Filipovic et al that teaches a receiver that receives, amplifies, filters, and down converts an RF signal to obtain an FM signal. The FM samples from the ADC are provided to an edge detector, which detects transitions in the FM samples. The transitions correspond to zero crossing in the FM signal. The time period between zero crossings, or the cycle width, is measured with a counter to determine the instantaneous frequency of the FM signal. The Examiner further states that Midya also discloses a method for generating a modulated signal including a pulse modulation source, a pulse modulator for modulating a pulse signal, and a harmonic reduction filter for passing the switching frequency of the pulsed signal as the RF carrier. The Examiner then states it would be obvious to one skilled in the art at the time the invention was made to apply the technique of Midya to the modified system of Filipovic and Kolanek in order to suppress the amplitude of a cycle that results in suppressed cycle modulation. The Examiner also rejected the method claims 3 through 8 under these same patents.

As discussed in detail above Applicant respectfully disagrees with the Examiner's

finding that Kolanek in view of Filipovic et al and Midya substantially makes obvious Applicant's invention to someone skilled in the art. The Examiner has discussed only some elements of some embodiments of the rejected claims and has completely ignored the true novelty of the invention. The novelty is based in the fact that the invention is an RF signal and method of constructing such signal by suppressing an integer number of discrete wavelets, resulting in the ability to greatly increase the transmission of data and greatly decrease the bandwidth required.

Amended Claims 1 - 17 now appear in the application. Reconsideration of the application and the patentable merits of the subject matter covered by these claims is respectfully requested. Applicant submits that Claims 1 - 17 are allowable and respectfully requests early favorable action by the Examiner.

If the Examiner believes a telephonic interview with Applicant's representative would aid in the prosecution of this application, he is cordially invited to contact Applicant's representative at the below listed number.

April 08, 2004  
Date

Respectfully submitted,



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